

Docket No. 246111US2DIV

SEP 13 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Tadao MICHISHITA, et al.

SERIAL NO: 10/727,507

GAU: 1753

FILED: December 5, 2003

EXAMINER: WONG, E

FOR: ULTRAVIOLET IRRADIATION APPARATUS FOR PHOTOCHEMICAL REACTION AND PREPARATION  
PROCESS OF VITAMIN D DERIVATIVE MAKING USE OF THE SAME

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Three of the four copies of the listed references were submitted only in German, and a copy of one Japanese reference was provided without English abstract in parent application Serial No. 09/720,806, filed January 3, 2001. Copies of the listed four references are attached with the English abstracts, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.

A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. In accordance with discussions on August 4, 2004 with Mr. Nicholas P. Godici, Commissioner for Patents, it is no longer required to submit copies of cited pending applications. A modification of the Rules will be published soon in the Official Gazette. Cited issued patents, if any, are listed on the attached PTO form 1449.

A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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SEP 13 2004

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 246111US2DIV		SERIAL NO. 10/727,507	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT					
		Tadao MICHISHITA, et al.		FILING DATE		GROUP	
		December 5, 2003		1753			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	AO	855397	01/08/53	Germany (w/ English abstract)		x	
	AP	249864	07/31/47	Switzerland (w/ English abstract)		x	
	AQ	0967202	12/29/99	Europe (w/ English abstract)		x	
	AR	49-14541	02/08/74	Japan (w/ English abstract)		x	
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
AS	V. MALATESTA, et al., J. Am. Chem. Soc., vol. 103, pages 6781-6783, "LASER PHOTOCHEMICAL PRODUCTION OF VITAMIN D", 1981						
AT	Masami OKABE, et al., J. Org. Chem., vol. 60, no. 3, pages 767-771, "SYNTHESIS OF 25-HYDROXYCHOLECALCIFER-16-en-23-ynol: A POTENTIAL ANTIPSORIATIC AGENT", 1995						
AU	Tadashi SATO, et al., J. Nutr. Sci. Vitaminol., vol. 26, no. 6, pages 545-555, "EFFECT OF WAVELENGTH ON THE FORMATION OF 1 $\alpha$ -HYDROXYPREVITAMIN D, IN THE ULTRAVIOLET IRRADIATION OF CHOLESTA-5, 7-DIENE-1 $\alpha$ , 3 $\beta$ -DIOL AND USE OF A FILTER SOLUTION IN THE PHOTOCHEMICAL REACTION IN THE SYNTHESIS OF 1 $\alpha$ -HYDROXY-VITAMIN D <sub>3</sub> ", 1980						
AV	William G. DAUBEN, et al., J. Am. Chem. Soc., vol. 104, pages 5780-5781, "EFFECTS OF WAVELENGTH ON THE PHOTOCHEMISTRY OF PROVITAMIN D <sub>3</sub> ", 1982						
AW	William G. DAUBEN, et al., J. Am. Chem. Soc., vol. 110, NO. 8, pages 2548-2553, "TRIENE PHOTOPHYSICS AND PHOTOCHEMISTRY: PREVITAMIN D <sub>3</sub> ", 1988						
AX	J.A. KEVERLING BUISMAN, et al., Journal of Pharmaceutical Sciences, vol. 57, no. 8, pages 1326-1329, "EVALUATION OF THE EFFECT OF ISOMERIZATION ON THE CHEMICAL AND BIOLOGICAL ASSAY OF VITAMIN D", August 1968				<input type="checkbox"/> Additional References sheet(s) attached		
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							